

ABSTRACT

The present invention relates to novel mineral glasses which are ceramable and which have a composition, expressed in percentages by weight of oxides, consisting essentially of: SiO_2 65-70; Al_2O_3 18-20.5; Li_2O 2.5-3.8; MgO 0.55-1.5; ZnO 1.2-2.8; BaO 0-1.4; SrO 0-1.4; with $\text{BaO}+\text{SrO}$ 0.4-1.4; with $\text{MgO}+\text{BaO}+\text{SrO}$ 1.1 - 2.3; Na_2O 0 - <1; K_2O 0 - <1; with $\text{Na}_2\text{O}+\text{K}_2\text{O}$ 0-<1; with $\frac{2.8\text{Li}_2\text{O} + 1.2\text{ZnO}}{5.2\text{MgO}} > 1.8$; TiO_2 1.8-3.5; ZrO_2 0.8-2.5; with $2.2 < \frac{\text{TiO}_2}{\text{ZrO}_2} < 4.5$; preferably $2.3 < \frac{\text{TiO}_2}{\text{ZrO}_2} < 4.5$; and, optionally, an effective, non-excess amount of at least one fining agent. The present invention also relates to glass-ceramic articles made from such glass as well as processes for making such glass-ceramic articles.